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File: DWPI

May 13, 2004

DERWENT-ACC-NO: 2004-411278

DERWENT-WEEK: 200438

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TITLE: Treating porcine respiratory and reproductive syndrome in pigs, comprises administration of immunoglobulins, preferably obtained from yolks of eggs from virus-hyperimmunized hens

INVENTOR: LUCIO DECANINI, E; MORALES GARZON, J A

PRIORITY-DATA: 2002MX-0011761 (October 30, 2002)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>WO 2004039402 A2</u>	May 13, 2004	S	010	A61K039/42

INT-CL (IPC): A61 K 39/42; C07 K 16/02

ABSTRACTED-PUB-NO: WO2004039402A

BASIC-ABSTRACT:

NOVELTY - The use of immunoglobulins (I) is claimed in the treatment of pigs affected with porcine respiratory and reproductive syndrome (PRRS) virus.

ACTIVITY - Virucide.

One of three pigs (50 days old and weighing ca. 20 kg) was injected intramuscularly with 5 ml of a preparation containing immunoglobulin (I) against PRRS virus (obtained from the yolks of eggs from PRRS virus-hyperimmunized hens by the method described in Poultry Sci., 72, 275-281, 1993). A second pig was injected with 10 ml of the immunoglobulin preparation, and the third (control) was untreated. The levels of antibodies against (I) in the blood were determined over the next 4 weeks. The titers of (I) were ca. 5200, 1300, 100 and zero after 1, 2, 3 and 4 weeks respectively after treatment with 0.4 ml/kg of the preparation; ca. 5200, 5200, 200 and zero after 1, 2, 3 and 4 weeks respectively after treatment with 0.8 ml/kg of the preparation; and zero in all cases without treatment.

MECHANISM OF ACTION - Antiviral antibody preparation.

USE - (I) are useful for reducing mortality in pigs affected by PRRS and for providing protection against PRRS virus (all claimed). More generally (I) are useful for prevention and treatment of PRRS in pigs, reducing mortality, inhibiting transmission, and combating reduction in weight gain.

ADVANTAGE - (I) are retained in the bloodstream of treated animals, and have a good therapeutic and protective effect. The preferred (I), obtained from the yolks of

eggs from PRRS virus-hyperimmunized hens, are inexpensive and do not bond to complement or Staphylococcus aureus protein A, react with rheumatoid factor or cross-react with mammalian antibodies.

ABSTRACTED-PUB-NO: WO2004039402A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/2

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L11 ANSWER 3 OF 6 MEDLINE on STN
 AN 92329989 MEDLINE
 DN PubMed ID: 1821163
 TI Isolation and characterization of **egg yolk antibodies** IgY from hens immunized with different influenza **virus** strains.
 AU Cuceanu N; Constantinescu C; Ionita E
 CS Cantacuzino Institute, Bucharest, Romania.
 SO Roumanian archives of microbiology and immunology, (1991 Jul-Sep) 50 (3) 215-22.
 Journal code: 9204717. ISSN: 1222-3891.
 CY Romania
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199208
 ED Entered STN: 19920904
 Last Updated on STN: 19970203
 Entered Medline: 19920819
 AB A comparison of two precipitation methods of IgY from normal hen eggs was made. For method I the precipitation agent is represented by PEG 6000, and for method II by organic solvents. The comparative study of some parameters (protein concentration, ovalbumin content, presence of non-specific inhibitors, PAA-gel electrophoresis) shows that method I is more efficient and more convenient than method II. Using this method, we isolated and characterized IgY preparations from hens immunized with circulating influenza **virus** strains: A/Singapore/6/86 (H1N1), A/Shanghai/11/87 (H3N2) B/Beijing/1/87 and B/Yamagata/16/88 These viral IgY antibody preparations are homogeneous, lacking anti-host cell antibodies and non-specific inhibitors. Their NI titres and HI titres are higher than those found in the sera of immunized birds.
 CT Check Tags: Comparative Study; Female
 Animals
 Antibodies: AN, analysis
 *Antibodies: IP, isolation & purification

PubMed ID: 1887700

TI Chicken egg antibodies for prophylaxis and therapy of infectious
intestinal diseases. V. In vivo studies on protective effects against
Escherichia coli diarrhea in pigs.

AU Wiedemann V; Linckh E; Kuhlmann R; Schmidt P; Losch U

CS Institut fur Physiologie, Physiologische Chemie und Ernahrungsphysiologie,
Tierarztliche Fakultat, Universitat Munchen, FRG.

SO Zentralblatt fur Veterinarmedizin. Reihe B. Journal of veterinary
medicine. Series B, (1991 Jun) 38 (4) 283-91.
Journal code: 0331325. ISSN: 0514-7166.

CY GERMANY: Germany, Federal Republic of

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199110

ED Entered STN: 19911027
Last Updated on STN: 20030218
Entered Medline: 19911007

AB A field study and a controlled infection trial showed the protective
effect of egg yolk lyophilisate and whole egg lyophilisate against
enterotoxigenic E. coli germs. The lyophilisates were gained from eggs of
hens immunized against pilus antigen of **porcine**-enterotoxigenic E.
coli. In a first field study using **egg yolk**
antibodies, 92% of 299 diarrhea affected piglets were cured. In a
further field study diarrhea affected piglets were cured after 3 days by
application of egg yolk lyophilisate from immunized hens. Piglets treated
only with egg yolk of not immunized hens showed no signs of recovery. The
infection trial showed, that whole egg lyophilisate of immunized hens was
as successful as a common antibiotic therapy in curing piglets, orally
infected with 5×10^{10} E. coli/feeding and animal. The present data
show that chicken egg antibodies can be used for treatment of infectious
diarrheal diseases in young animals. So far they represent a good
alternative to the common used antibiotic therapy.

CT Animals
*Antibodies: TU, therapeutic use
Chickens
Diarrhea: PC, prevention & control

d his

(FILE 'HOME' ENTERED AT 13:50:03 ON 13 SEP 2004)

FILE 'MEDLINE' ENTERED AT 13:50:13 ON 13 SEP 2004

L1	62 S EGG YOLK ANTIBODIES
L2	447 S PRRSV
L3	0 S L1 AND L2
L4	287 S IGY
L5	0 S L4 AND L2
L6	0 S MYSTORY SWINE VIRUS
L7	0 S MYSTERY SWINE VIRUS
L8	12 S MYSTERY SWINE DISEASE
L9	0 S L4 AND L8
L10	0 S L1 AND L8
L11	6 S L1 AND VIRUS
L12	5 S L1 AND PORCINE E GARZON J A M/AU
L13	100 S E1
L14	0 S VIRUS AND L13 E DECANINI E L E DECANINI E L/AU

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Search Results - Record(s) 1 through 2 of 2 returned.

☒ 1. Document ID: US 20030086945 A1, WO 200159077 A1, EP 1255815 A1

L25: Entry 1 of 2

File: DWPI

May 8, 2003

DERWENT-ACC-NO: 2001-514657

DERWENT-WEEK: 200337

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TITLE: Isolated porcine reproductive and respiratory syndrome virus useful for production of antibodies, comprises RNA polynucleotide with specified sequenceINVENTOR: COLLINS, J E; FAABERG, K S ; ROSSOW, K D

PRIORITY-DATA: 2001US-260041P (January 5, 2001), 2000US-181041P (February 8, 2000), 2000US-193220P (March 30, 2000), 2000US-206624P (May 24, 2000), 2000US-215373P (June 29, 2000), 2002US-0203224 (August 7, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030086945 A1	May 8, 2003		000	C12Q001/70
WO 200159077 A1	August 16, 2001	E	074	C12N007/00
EP 1255815 A1	November 13, 2002	E	000	C12N007/00

INT-CL (IPC): A61 K 39/12; A61 K 39/42; A61 P 31/14; C07 H 21/04; C07 K 14/05; C07 K 14/08; C12 N 7/00; C12 N 15/40; C12 N 15/86; C12 Q 1/68; C12 Q 1/70; G01 N 33/569

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	HWMC	Draw. Data
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☐ 2. Document ID: JP 2002540798 W, WO 200060109 A1, EP 1255850 A1

L25: Entry 2 of 2

File: DWPI

Dec 3, 2002

DERWENT-ACC-NO: 2000-656233

DERWENT-WEEK: 200309

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TITLE: Detecting a predisposition to or a progression of cancer especially breast cancer in humans comprises detecting levels of CYP24 in a biological sample

INVENTOR: ALBERTSON, D G; COLLINS, C ; GRAY, J W ; PINKEL, D ; YSTRA, B

PRIORITY-DATA: 1999US-0285292 (April 2, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2002540798 W</u>	December 3, 2002		093	C12N015/09
<u>WO 200060109 A1</u>	October 12, 2000	E	073	C12Q001/00
EP 1255850 A1	November 13, 2002	E	000	C12Q001/00

INT-CL (IPC): A61 K 31/59; A61 K 31/7105; A61 K 31/711; A61 K 38/00; A61 K 45/00;
A61 K 48/00; A61 P 35/00; A61 P 35/04; C12 N 5/00; C12 N 5/06; C12 N 5/08; C12 N
9/00; C12 N 15/09; C12 Q 1/00; C12 Q 1/02; C12 Q 1/24; C12 Q 1/25; C12 Q 1/26; C12
Q 1/68; G01 N 1/00; G01 N 1/10; G01 N 31/00; G01 N 31/10; G01 N 33/15; G01 N 33/48;
G01 N 33/483; G01 N 33/487; G01 N 33/49; G01 N 33/493; G01 N 33/50; G01 N 33/53;
G01 N 33/566 ; G01 N 33/573; G01 N 33/574

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Keywords	Claims	KWC	Draw. D
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Terms	Documents
collins.in. and porcine	2

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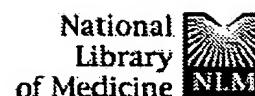
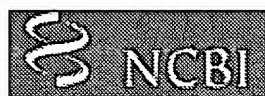
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DATE: Monday, September 13, 2004

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<input type="checkbox"/>	L34	Garzon.in.	36
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	<i>DB=EPAB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L31	PRRSV and egg yolk antibodies	0
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<input type="checkbox"/>	L27	WO-9636356-A1.did.	1
	<i>DB=DWPI; PLUR=YES; OP=ADJ</i>		
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<input type="checkbox"/>	L25	collins .in. and porcine	2
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L24	collins james.in. and porcine	5
<input type="checkbox"/>	L23	Chladek Danny W.in. and porcine	10
<input type="checkbox"/>	L22	Chladek Danny W.in. and prrsv	4
<input type="checkbox"/>	L21	collins.in. and prrsv	2
<input type="checkbox"/>	L20	collines.in. and prrsv	0
<input type="checkbox"/>	L19	6217865.pn. and virus	1
<input type="checkbox"/>	L18	PRRSV and IgY	0
<input type="checkbox"/>	L17	porcine reproductive and respiratory syndrome and IgY	0
<input type="checkbox"/>	L16	porcine reproductive and respiratory syndrome and egg yolk antibodies	0
<input type="checkbox"/>	L15	porcine reproductive and respiratory syndrome	77
<input type="checkbox"/>	L14	egg yolk antibodies and pig?	12
<input type="checkbox"/>	L13	egg yolk antibodies	63
<input type="checkbox"/>	L12	egg yolk antibodies and PRRSV	0
<input type="checkbox"/>	L11	chicken antibody and virus.clm.	14

<input type="checkbox"/>	L10	chicken antibody and virus	71
<input type="checkbox"/>	L9	chicken antibody and PRRSV	0
<input type="checkbox"/>	L8	cheicken antibody and PRRSV	0
<input type="checkbox"/>	L7	egg yolk and PRRSV	0
<input type="checkbox"/>	L6	egg yolk and virus	538
<input type="checkbox"/>	L5	Ig Y and PRRSV	0
<i>DB=DWPI; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L4	Ig Y and PRRSV	0
<input type="checkbox"/>	L3	yolks of eggs and PRRSV	0
<input type="checkbox"/>	L2	Decanini.in.	5
<input type="checkbox"/>	L1	Decanini e d.in.	0

END OF SEARCH HISTORY



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- ☐ 1: [Larsson A, Carlander D.](#) [Related Articles, Links](#)
- Oral immunotherapy with yolk antibodies to prevent infections in humans and animals.
Ups J Med Sci. 2003;108(2):129-40. Review.
PMID: 14649324 [PubMed - indexed for MEDLINE]
- ☐ 2: [Carlander D, Kollberg H, Wejaker PE, Larsson A.](#) [Related Articles, Links](#)
- Peroral immunotherapy with yolk antibodies for the prevention and treatment of enteric infections.
Immunol Res. 2000;21(1):1-6. Review.
PMID: 10803878 [PubMed - indexed for MEDLINE]
- ☐ 3: [Mine Y, Kovacs-Nolan J.](#) [Related Articles, Links](#)
- Chicken egg yolk antibodies as therapeutics in enteric infectious disease: a review.
J Med Food. 2002 Fall;5(3):159-69. Review.
PMID: 12495588 [PubMed - indexed for MEDLINE]
- ☐ 4: [Carlander D, Kollberg H, Larsson A.](#) [Related Articles, Links](#)
- Retention of specific yolk IgY in the human oral cavity.
BioDrugs. 2002;16(6):433-7.
PMID: 12463766 [PubMed - indexed for MEDLINE]
- ☐ 5: [Sasse M, Kruger M, Schade R, Hlinak A.](#) [Related Articles, Links](#)
- [Generation and characterization of avian vitelline antibodies against lipopolysaccharide and lipid A. 1. Induction and preparation of specific egg yolk antibodies (IgY) against endotoxins]
Berl Munch Tierarztl Wochenschr. 1998 Apr;111(4):121-6. German.
PMID: 9581345 [PubMed - indexed for MEDLINE]
- ☐ 6: [Keller MA, Stiehm ER.](#) [Related Articles, Links](#)
- Passive immunity in prevention and treatment of infectious diseases.
Clin Microbiol Rev. 2000 Oct;13(4):602-14. Review.
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- ☐ 7: [Li X, Nakano T, Sunwoo HH, Paek BH, Chae HS, Sim JS.](#) [Related Articles, Links](#)
- Effects of egg and yolk weights on yolk antibody (IgY) production in laying chickens.
Poult Sci. 1998 Feb;77(2):266-70.
PMID: 9495491 [PubMed - indexed for MEDLINE]
- ☐ 8: [Tokarzewski S.](#) [Related Articles, Links](#)

-  **Influence of enrofloxacin and chloramphenicol on the level of IgY in serum and egg yolk after immunostimulation of hens with Salmonella enteritidis antigens.**
Pol J Vet Sci. 2002;5(3):151-8.
PMID: 12448078 [PubMed - indexed for MEDLINE]
- ☐ **9: Chang HM, Ou-Yang RF, Chen YT, Chen CC.** Related Articles, Links
-  **Productivity and some properties of immunoglobulin specific against Streptococcus mutans serotype c in chicken egg yolk (IgY).**
J Agric Food Chem. 1999 Jan;47(1):61-6.
PMID: 10563850 [PubMed - indexed for MEDLINE]
- ☐ **10: Hatta H, Tsuda K, Akachi S, Kim M, Yamamoto T.** Related Articles, Links
-  **Productivity and some properties of egg yolk antibody (IgY) against human rotavirus compared with rabbit IgG.**
Biosci Biotechnol Biochem. 1993 Mar;57(3):450-4.
PMID: 7764050 [PubMed - indexed for MEDLINE]
- ☐ **11: Chen CC, Tu YY, Chen TL, Chang HM.** Related Articles, Links
-  **Isolation and characterization of immunoglobulin in yolk (IgY) specific against hen egg white lysozyme by immunoaffinity chromatography.**
J Agric Food Chem. 2002 Sep 11;50(19):5424-8.
PMID: 12207486 [PubMed - indexed for MEDLINE]
- ☐ **12: Meng XJ, Meng MJ, Linlai XM, Zhou MQ, Wang XN.** Related Articles, Links
-  **[Preparation and identification of egg yolk antibodies against HLA-A* 0201 heavy chain]**
Di Yi Jun Yi Da Xue Xue Bao. 2003 Nov;23(11):1188-90. Chinese.
PMID: 14625184 [PubMed - indexed for MEDLINE]
- ☐ **13: Sasse M, Hlinak A.** Related Articles, Links
-  **[Generation and characterization of avian vitelline antibodies against lipopolysaccharide and lipid A. 2. Investigations of specificity of egg yolk antibodies (IgY) against endotoxin]**
Berl Munch Tierarztl Wochenschr. 1998 Apr;111(4):127-33. German.
PMID: 9581346 [PubMed - indexed for MEDLINE]
- ☐ **14: Kim WK, Patterson PH.** Related Articles, Links
-  **Production of an egg yolk antibody specific to microbial uricase and its inhibitory effects on uricase activity.**
Poult Sci. 2003 Oct;82(10):1554-8.
PMID: 14601732 [PubMed - indexed for MEDLINE]
- ☐ **15: Sugita-Konishi Y, Shibata K, Yun SS, Hara-Kudo Y, Yamaguchi K, Kumagai S.** Related Articles, Links
-  **Immune functions of immunoglobulin Y isolated from egg yolk of hens immunized with various infectious bacteria.**
Biosci Biotechnol Biochem. 1996 May;60(5):886-8.
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- ☐ **16: Eterradossi N, Toquin D, Abbassi H, Rivallan G, Cotte JP, Guittet M.** Related Articles, Links
-  **Passive protection of specific pathogen free chicks against infectious bursal disease by in-ovo injection of semi-purified egg-yolk antiviral**

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Zentralbl Veterinarmed B. 1997 Aug;44(6):371-83.
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- ☐ 17: [Lee EN](#), [Sunwoo HH](#), [Menninen K](#), [Sim JS](#). [Related Articles](#), [Links](#)



In vitro studies of chicken egg yolk antibody (IgY) against Salmonella enteritidis and Salmonella typhimurium.

Poult Sci. 2002 May;81(5):632-41.
PMID: 12033412 [PubMed - indexed for MEDLINE]

- ☐ 18: [Hatta H](#), [Tsuda K](#), [Ozeki M](#), [Kim M](#), [Yamamoto T](#), [Otake S](#), [Hirasawa M](#), [Katz J](#), [Childers NK](#), [Michalek SM](#). [Related Articles](#), [Links](#)



Passive immunization against dental plaque formation in humans: effect of a mouth rinse containing egg yolk antibodies (IgY) specific to Streptococcus mutans.

Caries Res. 1997;31(4):268-74.
PMID: 9197932 [PubMed - indexed for MEDLINE]

- ☐ 19: [Hedlund GP](#), [Hau J](#). [Related Articles](#), [Links](#)



Oral immunisation of chickens using cholera toxin B subunit and Softigen as adjuvants results in high antibody titre in the egg yolk.

In Vivo. 2001 Sep-Oct;15(5):381-4.
PMID: 11695233 [PubMed - indexed for MEDLINE]

- ☐ 20: [Shin JH](#), [Yang M](#), [Nam SW](#), [Kim JT](#), [Myung NH](#), [Bang WG](#), [Roe IH](#). [Related Articles](#), [Links](#)



Use of egg yolk-derived immunoglobulin as an alternative to antibiotic treatment for control of Helicobacter pylori infection.

Clin Diagn Lab Immunol. 2002 Sep;9(5):1061-6.
PMID: 12204960 [PubMed - indexed for MEDLINE]

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